

Some Tipulidae from Southern Spain.

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The Tipulidae (Tipulinae) collected during the expeditions of the Copenhagen and Helsingfors museums to southern Spain (provinces Granada and Almeria) in 1966 number 51 specimens of 13 species. An additional 5 species were collected in the same provinces in July 1960 by Dr. J. R. Vockeroth.

I wish to express my thanks to my colleagues Leif Lyneborg, Ole Martin and Søren Langemark (Copenhagen), Walter Hackman (Helsingfors) and J. R. Vockeroth (Ottawa) for the opportunity to study this material enlarging our knowledge to the crane-fly fauna of Spain. The material is in the respective museums.

Nephrotoma maculosa (Meigen, 1818).

maculata (Meigen, 1804), nec (Linné, 1758).

Material. — GRANADA: Rio Lanjaron 9 km NW Orgiva, 1600 m, 1 ♀, 6 April 1966.

Distribution. — Throughout Europe.

Nephrotoma submaculosa Edwards, 1928.

Material. — ALMERIA: Rioja, 50—200 m, 1 ♂ 1 ♀, 25 March 1966. — GRANADA: Rio Sucio 5 km NW Orgiva, 700 m, 2 ♂ 2 ♀, 3 April 1966; Rio Guadalfeo, Orgiva, 300 m, 1 ♂, 2 April 1966.

Distribution. — Throughout Europe, but restricted to sandy regions.

Nephrotoma cornicina (Linné, 1758).

Material. — GRANADA: Granada, 700 m, 2 ♂ 6 ♀, 9—18 July 1960 (J. R. Vockeroth).

Distribution. — Throughout Europe.

Nephrotoma guestfalica (Westhoff, 1880).

Material. — ALMERIA: Rioja, 50—200 m, 1 ♂, 25 March 1966. — GRANADA: Rio Guadalfeo, 300 m, 1 ♀, 4 April 1966.

Distribution. — Throughout Europe except in the north.

Nephrotoma scalaris (Meigen, 1818).

imperialis (Meigen, 1818).

Material. — GRANADA: Rio Guadalfeo, Orgiva, 300 m, 2 ♂ 4 ♀, 4 April — 3 May 1966; Pampineira, 900 m, 1 ♂, 9 April 1966.

Distribution. — Southern Europe, southeastern Asia.

Nephrotoma luteata (Meigen, 1818).

castellana (Strobl, 1906); *zonata* (Pierre, 1919).

Material. — GRANADA: Rio Sucio 5 km NW Orgiva, 700 m, 1 ♂, 3 April 1966.

Distribution. — Iberian Peninsula and southern France.

Nephrotoma lindneri (Mannheims, 1951).

Material. — GRANADA: Rio Lanjaron 9 km NW Orgiva, 1600 m, 1 ♀, 7 May 1966.

Distribution. — Southern Europe.

Tipula (Tipula) mediterranea Lackschewitz, 1930.

Material. — ALMERIA: Almeria, 0—50 m, 1 ♀, 11—20 April 1966; Rio Andarax, Fondón, 600 m, 1 ♂, 18 March 1966. — GRANADA: Rio Guadalfeo, Orgiva, 300 m, 5 ♂ 4 ♀, 2—7 April 1966; Pampineira, 900 m, 1 ♂ 1 ♀, 9 April 1966; Rio Lanjaron near Lanjaron, 600 m, 1 ♂ 1 ♀, 26 April 1966; Rio Lanjaron 9 km NW Orgiva, 1600 m, 2 ♂, 15 April 1966.

Distribution. — West Mediterranean area: Italy, Spain, North Africa.

Tipula (Yamatotipula) lateralis Meigen, 1818.

montium Lackschewitz, 1923, nec Egger, 1863.

Material. — ALMERIA: Rio Andarax, Fondón, 600 m, 1 ♂, 18 March 1966. — GRANADA: Rio Guadalfeo, Orgiva, 300 m, 1 ♀, 21 April 1966; Rio Lanjaron near Lanjaron, 600 m, 1 ♂, 26 April 1966; Sierra Nevada, 2400 m, 1 ♀, 24 July 1960 (J. R. Vockeroth).

Distribution. — Throughout Europe, North Africa, Asia Minor.

Tipula (Acutipula) maxima Poda, 1761.*gigantea* Schrank, 1776; *sinuata* Fabricius, 1782;*pseudogigantea* Strobl, 1900.

Material. — GRANADA: Rio Lanjaron near Lanjaron, 600 m, 1 ♂ 2 ♀, 26 and 28 April 1966.

Distribution. — Throughout Europe, near running water.

Tipula (Acutipula) fulvipennis Degeer, 1776.*lutescens* Fabricius, 1805.

Material. — GRANADA: N. slope Veleta, Sierra Nevada, 2400 m, 1 ♀, 24 July 1960 (J. R. Vockeroth).

Distribution. — Throughout Europe.

Tipula (Lunatipula) gibbifera Strobl, 1906.*adpes* Riedel, 1913.

Material. — GRANADA: Orgiva 5 km SE, 500 m, 1 ♂, 15 March 1966.

Distribution. — Spain and southeastern France (near Volonne sur Durance and Avignon).

Tipula (Lunatipula) pilicauda Pierre, 1921.

Material. — GRANADA: N. slope Veleta, Sierra Nevada, 2550 m, 1 ♂, 24 July 1960 (J. R. Vockeroth).

Distribution. — Southern France and Spain.

Tipula (Lunatipula) ampullifera Mannheims, 1965.

Material. — GRANADA: N. slope Veleta, Sierra Nevada, 2300—2550 m, 1 ♀ paratype, 22 July 1960 (J. R. Vockeroth).

Distribution. — Spain.

Tipula (Lunatipula) trifasciculata Strobl, 1900.

Material. — GRANADA: Rio Lanjaron 9 km NW Orgiva, 1600 m, 1 ♀, 7 May 1966.

Distribution. — Middle and Southern Spain.

Tipula (Lunatipula) dolores Mannheims, 1967.

Material. — GRANADA: Rio Mulhacén 5 km N Capileira, 1500 m, 2 ♂ paratypes, 9 April 1966.

Distribution. — Southern Spain.

Tipula (Lunatipula) pseudocinerascens Strobl, 1906.

Material. — ALMERIA: Almeria, Alcazaba, 0—50, 1 ♂, 8 April

1966 (W. Hackman); Alhama 5 km W, 200—500 m, 1 ♂ 1 ♀, 17—21 March 1966; Tabernas 8 km N, 200—500 m, 14 March 1966. — GRANADA: Orgiva 4 km SE, 400 m, 1 ♂, 15 March 1966.

Distribution. — Spain.

Tipula (Savtshenka) atlas Pierre, 1924.

breviantennata Lackschewitz, 1933.

Material. — GRANADA: N. slope Veleta, Sierra Nevada, 2400 m, 1 ♀, 24 July 1960 (J. R. Vockeroth).

Distribution. — Known from North Africa (Grand Atlas), southern Spain (Sierra Nevada), northern Spain (Pyrenees), French Alps (Massif de Chartreuse) and central Italy (Monte Falterone).

Summary

The paper brings records from southern Spain of 18 species of Tipulidae, viz. 7 species of *Nephrotoma* and 11 species of *Tipula*.

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